Maryland Public Access

AED
Automated External Defibrillator

Program
TABLE OF CONTENTS

1. Forward Letter from the Office of the State EMS Medical Director

2. Introduction Page 1

3. Program Requirements

   AED Coordinator 1
   Training 1
   AED Placement 2
   Registration 2
   Links to 911 2
   Equipment and Maintenance 2
   Required Equipment 2
   Reporting 2
   Compliance 3
   Application Process 3
   Instructions for Application 3

4. AED Protocol 4

5. Appendices

   A. Application Forms
   B. Overview of Maryland EMS System
TO: Maryland Facility AED Program Applicants

FROM: Richard L. Alcorta, MD, FACEP
State EMS Medical Director
MIEMSS

RE: Maryland Public Access Automated External Defibrillator (AED) Program

The Maryland Institute for Emergency Medical Services Systems (MIEMSS) is pleased your organization has decided to become an integral part of the Maryland Emergency Medical Services (EMS) System. Maryland’s EMS system is a cooperative, multidisciplinary, consensus-based program of integrated resources, agencies, hospitals, and dedicated individuals such as you.

Each year in the United States an estimated 250,000-400,000 people suffer from sudden cardiac arrest. Ventricular Fibrillation is the most common cause of death from sudden cardiac arrest and can be treated with early defibrillation that restores the heart to a normal rhythm.

MIEMSS has established requirements for the use of the AED at your organization. The enclosed information includes the requirements of the program and the application that must be submitted to MIEMSS prior to institution of an AED Program.

You are a vital link in the chain of survival by calling 911, starting bystander CPR, and providing early defibrillation, the major determinants of successful resuscitative attempts. Your prompt response combined with immediate access to EMS advanced life support personnel will optimize the victim’s chances of survival and recovery. I thank you for your interest in the AED program and should you have any questions please do not hesitate to contact AED-Support@miemss.org.
Maryland Public Access AED Program Requirements

Introduction

The Maryland Institute for Emergency Medical Services Systems (MIEMSS) is pleased to provide you with information about Maryland’s Public Access Automated External Defibrillator (AED) Program. The Maryland Public Access AED Program permits a business, organization, association, etc., which meets certain requirements, to make automated external defibrillators (AEDs) available for individuals suffering sudden cardiac arrest on the business’s premises. Examples include offices, government buildings, churches, schools, health clubs, pools, and golf courses, to name a few. These “entities” may establish an AED program at a single site or may include multiple sites under one program.

Specific requirements have been developed for entities that wish to set up an AED program in Maryland, including but not limited to registration with MIEMSS. A certificate issued by MIEMSS to a registered entity is effective for three years if compliance with the program requirements is maintained.

The enclosed information will provide you with a basic understanding of what is needed to implement an AED Program. To view the Public Access AED Program regulations, please go directly to the COMAR website at http://www.dsd.state.md.us/comar/subtitle_chapters/30_Chapters.aspx#Subtitle06

Should any discrepancies exist between these materials and the text of regulations, the regulations are binding. Entities operating AEDs without a valid certificate of authorization or renewal are in violation of Maryland State law.

Program Requirements

The following is a list of the requirements that must be maintained in order to participate in the Maryland Public Access AED Program:

1. **AED Coordinator:** Each entity shall have a designated AED Program coordinator who is responsible for implementing and administering the program. Responsibilities include maintaining necessary records and documentation, providing information regarding the AED to all employees or volunteers at a facility, reporting suspected cardiac arrest and/or use of the AED to MIEMSS, facilitating MIEMSS required monthly inspection and any manufacturer recommended maintenance, and other associated program tasks for all sites associated with a registered Public Access AED Program.

2. **Training**: Entities wishing to participate in the Public Access AED Program shall have the AED Coordinator as well as individuals who are expected to operate the AED complete CPR and AED training and subsequent refresher training in accordance with their training course requirements that at a minimum includes content consistent with the recommendations for layperson CPR and AED training in the most current publication of the American Heart Association Guidelines for CPR and Emergency Cardiovascular Care.

(*) **Authorized facilities with multiple sites must ensure that each site meets the requirement noted.**
3. **AED Placement:** AEDs shall be placed in locations which are visible and readily accessible to any person willing to operate the AED in the event of a suspected cardiac arrest. AEDs should never be kept locked or restricted from use by anyone on the premises. Signage indicating the location of the AED(s) on the premises is also recommended.

4. **Registration*: Entities that wish to participate in the Public Access AED Program may apply online at [www.marylandaedregistry.com](http://www.marylandaedregistry.com). MIEMSS will notify the closest jurisdictional emergency medical services (EMS) operational program and 9-1-1 center of all AED sites registered with MIEMSS.

5. **Links to 911*: It is essential to notify “9-1-1” immediately when a sudden cardiac arrest occurs at an AED site. Therefore each AED site must have an effective means of communicating with “9-1-1,” ideally a telephone. In situations when no telephone is available, another means of immediate notification to “9-1-1” should be available, e.g., a two-way radio contacting the facility’s switchboard operator who dials “9-1-1.”

6. **Equipment and Maintenance*: Because most reported AED malfunctions result from failure to perform user-based maintenance of the AED, it is required that entities adhere to the AED manufacturer’s guidelines for maintenance, inspection, and repair of AEDs. This includes monthly inspection of the AED and associated equipment, restocking of equipment as needed, replacement/ of batteries and electrodes as needed, and other necessary procedures. It is required that this equipment list be kept with each AED monthly inspection record (located in appendix A).

### Required Equipment (Keep with AED at All Times)

- 2 sets of defibrillator chest pads (electrodes). It is strongly recommended that facilities with children under the age of 8 years include pediatric electrodes as well as adult pads.
- Disposable gloves
- 1 extra battery set, if the AED uses replaceable batteries other than long life lithium batteries.
- Cables (if your AED has removable cables)
- Maryland Public Access AED Report Forms for Cardiac Arrests (located in Appendix A of this packet and on the MIEMSS webpage).
- A ready-to-use AED should be kept in an unlocked case with no visible signs of damage that would interfere with its use.

7. **Reporting*: If there is a suspected cardiac arrest at a location that is registered in the Maryland Public Access AED Program, the Maryland Public Access AED Report form for Cardiac Arrests and if possible the AED event download summary should be completed and faxed to MIEMSS as soon as possible but not longer

(*) Entities with multiple sites must ensure that each site meets the requirement noted.
than 48 hours following the incident, **even if the AED was not used**. The form and instructions for completion are located in Appendix A. Forms may also be accessed from the MIEMSS webpage at www.miemss.org.

**AED Malfunction**: If there is a suspected malfunction of the AED a report must be filed with the FDA and a copy of the report must be sent to MIEMSS. Information on device malfunction reporting may be found at the following FDA website: http://www.fda.gov/Safety/MedWatch/HowToReport/ucm053074.htm

8. **Compliance***: Entities participating in the AED Program are expected to maintain all Program requirements. MIEMSS may perform a compliance review upon information that an entity has failed to comply with Program requirements. Therefore, it is essential that records are efficiently maintained on MIEMSS forms (included in Appendix A) and are immediately available should inspection become necessary.

9. **Application Process***: Entities that wish to participate in the Maryland Public Access AED Program may apply online at www.marylandaedregistry.com Instructions are provided in Appendix A. AED Program applicants meeting the Program requirements will be approved by the EMS Board and issued a certificate valid for a period of three (3) years after which time program applicants must reapply. Applicants not meeting the requirements will be denied and will be given a written explanation stating the reason for denial. Applicants that have been denied may re-apply, or may file an appeal within 20 days of receipt of the EMS Board’s decision stating the reason that the Board should reconsider its decision. Applicants filing an appeal will be granted a hearing before the EMS Board or the Office of Administrative Hearings.

10. **Assistance**: For assistance please contact:

    Phone 410-822-1799
    Email: AED-Support@miemss.org

Incomplete applications will not be processed until all information has been submitted.

(*) Entities with multiple sites must ensure that each site meets the requirement noted.
Maryland Public Access AED Protocol

All personnel expected to operate an AED at a registered facility shall utilize the AED in accordance with their training. When an individual’s training conflicts with the auditory and visual prompts of the device, the individual shall follow the auditory and visual prompts.
APPENDIX A
Enclosed Forms

The following forms are included in appendix A of this packet and may be copied for use when implementing an AED program:

- Application Instructions
- List of AED Site Location Types
- MIEMSS Maryland Facility AED Report form and Instructions for completion (return a copy to MIEMSS by fax to 410-706-4366 for each suspected cardiac arrest incident)
- AED monthly safety inspection record

Additional forms may be downloaded at www.miemss.org
Maryland AED Registry Instructions

Maryland’s AED law requires non-exempt* organizations with AEDs to register with MIEMSS and maintain a current certificate in order to have AEDs on site. To register your AED(s) with MIEMSS please go to www.marylandaedregistry.com and enter the required information into the Maryland AED registry. In order to do so, you will be required to set up a username and password. It is recommended you use Google Chrome or Mozilla Firefox as your web browser and not Internet Explorer for best results. Upon creation of the account you will receive an automated email asking for verification of the information you have entered after which you will be able to add your program information. In addition to the site location information for all AEDs and sites under your program, you will need to provide the make and model of the AED(s) and serial number(s), and the battery and electrode expiration dates. Upon completion you will be automatically issued a new certificate by email valid for an additional 3 years. The Maryland AED Registry will automatically send monthly reminders to update the Registry with any changes or new information as well as when AED batteries and electrodes are nearing expiration. The information you enter into the Maryland AED Registry will be included in the National AED Registry™ and will be made available to the EMS 9-1-1 dispatch center in your community in the event there is a cardiac arrest at your site.

For assistance, please call 410-822-1799 or email AED-Support@miemss.org.

Effective July 1, 2015 MIEMSS will only accept electronic AED application submissions to the Maryland AED Registry and will no longer accept paper applications.

*Exempt organizations include: Health care facilities, physician’s offices, dentist’s offices, jurisdictional EMS operational programs, commercial ambulance services, and federal government agencies.
### AED Site Location Type

#### Residential
- Senior Living Housing
- Other

#### Transportation Related
- Airport – BWI
- Airport – Other
- Bus Station
- Train Station
- Street / Highway
- Public Transportation
- Other

#### Building
- Government Admin. Building
- Public Building (non – Gov’t)
- Industrial Place and Premises
- Restaurant / Bar
- School / Educational Facility
- Church
- Hotel / Motel
- Retail Stores (enclosed mall)
- Retail Store (not in enclosed mall)
- Jail / Correctional Facility
- Convention Center
- Courthouse
- Adult Day Care
- Other

#### Recreation
- Stadium
- Racecourse / Racetrack
- Amusement Park
- Theatre / Cinema
- Health Club
- Golf Course
- Public Beach
- Park
- Museum
- Community Pool
- Recreation Center
- Camp
- Other

#### Medical Facilities
- Rehab Facility (outpatient)
- Physician or Dentist Office
- Dialysis Center
- Urgent Care Facility
- Other

#### Mobile Units
- Law Enforcement Officer Vehicles
- Emergency Roadside Assistance
- Other
MARYLAND FACILITY AED REPORT FORM FOR CARDIAC ARRESTS

To be completed immediately after a cardiac arrest occurs at your facility or the Facility AED is put on a patient
Form should be filled out by the main caregiver at the scene & the Facility AED Operator and returned to MIEMSS within 48 hours

Please Return Completed Form with your AED Summary Report and copy of FDA Incident Form (if applicable) to:
Maryland Institute for Emergency Medical Services Systems (MIEMSS)
653 West Pratt Street Baltimore MD 21201 Attention: Epidemiology / M-CAPD Study
Fax: (410) 706-4366

1. Facility Name: ______________________________________________________________

2. Incident Location: ____________________________________________________________

3. Date of Incident: ______ / ______ / ______

4. Estimated Time of Incident: ______ : ______ a.m. / p.m. 4a. Estimated Time that 911 Call was placed: ______ : ______ a.m. / p.m.

5. Name of Patient: ____________________________________________________________
   First                      Middle                      Last


8. Did the patient collapse (become unresponsive, i.e., no breathing, no coughing, no movement)? Yes[ ] No[ ]

8a. If Yes, what were the Events immediately prior to the collapse (check all that apply):
   Difficulty Breathing[ ] Chest Pain[ ] No Signs or Symptoms[ ] Drowning[ ]
   Electrical Shock[ ] Injury[ ] Unknown[ ]

8b. Was someone present to see the person collapse? Yes[ ] No[ ]
   If yes, was that person a trained AED Employee? Yes[ ] No[ ]

8c. After the collapse, at the time of Patient Assessment and just prior to the Facility AED pads being applied,
   Were there signs of circulation (breathing, coughing, movement)? Yes[ ] No[ ]
   Was pulse checked? Yes[ ] No[ ]
   If yes, did the person have a pulse? Yes[ ] No[ ]

9. Was CPR given prior to 911 EMS arrival? Yes[ ] Go to #9a No[ ] Go to #10
   9a. Estimated time CPR Started: ______ : ______ a.m. / p.m.

   9b. Was CPR started prior to the Arrival of a Trained AED Employee? Yes[ ] No[ ]
   9c. Who started CPR? Bystander[ ] Trained AED Employee[ ]

10. Was a Facility AED brought to the patient’s side prior to 911 EMS arrival? Yes[ ] No[ ]
    10a. If No, Briefly describe why and skip to question 17:__________________________
    10b. If Yes, Estimated Time (based on your watch) Facility AED at patient’s side: ______ : ______ a.m. / p.m.

TURN OVER and COMPLETE BOTH SIDES
CONFIDENTIAL

11. Were the Facility AED Pads put on the patient?  Yes[  ] No[  ]
   11a. If Yes, Was the person who put the AED pads on the patient a:
       Trained AED Facility Employee[  ] Untrained AED Facility Employee[  ] Bystander[  ]

12. Was the Facility AED turned on?  Yes[  ] No[  ]
   12a. If Yes, Estimated Time (based on your watch) Facility AED was turned on: _____:_____ a.m./p.m.

13. Did the Facility AED ever shock the patient?  Yes[  ] No[  ]
   13a. Estimated time (based on your watch) of 1st shock by facility AED: _____:_____ a.m./p.m.
   13b. If shocks were given, how many shocks were delivered prior to the EMS ambulance arrival?  #

14. Name of Person operating the Facility AED: ____________________________

14a. Is this person a trained AED employee?  Yes[  ] No[  ]
14b. Highest level of medical training of person administering the Facility AED:
       Public AED Trained [  ] First Responder AED Trained [  ] EMT-B [  ] CRT/EMT-P [  ]
       Nurse/Physician [  ] Other Health Care Provider [  ] No Known Training [  ]

15. Was there any mechanical difficulty or failure associated with the use of the Facility AED?  Yes[  ] No[  ]
15a. If Yes, Briefly explain and attach a copy of the completed FDA reporting form (required by Federal law).

16. Were there any unexpected events or injuries that occurred during the use of the Facility AED? Yes[  ] No[  ]
16a. If yes, Briefly explain:

17. Indicate the patient’s status at the time of the 911 EMS arrival:
   17a. Pulse restored:  Yes[  ] No[  ] Don’t Know[  ] If Yes, Time Pulse Restored: ___:___
   17b. Breathing restored:  Yes[  ] No[  ] Don’t Know[  ] If Yes, Time Breathing Restored: ___:___
   17c. Responsiveness restored:  Yes[  ] No[  ] Don’t Know[  ] If Yes, Time Patient Responsive: ___:___
   17d. Signs of circulation:  Yes[  ] No[  ] Don’t Know[  ] If Yes, Time Circulation Returned: ___:___

18. Was the patient transported to the hospital?  Yes[  ] No[  ]
18a. If Yes, How was the patient transported?  EMS Ambulance[  ] Private Vehicle[  ] Other

Report Completed by: ____________________________

Was a Rural Health Grant funded AED used at the scene? (i.e., Was there a MR-AED sticker on the AED?)  Yes[ ]  No[ ]  If yes, by whom?  Police Mobile Unit[ ] Emergency Roadside Assist[ ] Public Access Facility[ ]

RETURN TO MIEMSS WITHIN 48 HOURS FOLLOWING INCIDENT: FAX (410) 706-4366 QUESTIONS? CONTACT MIEMSS Office of Special Programs at PHONE: (410) 706-4740

Facility Name ____________________________

Page 2 of 2 REV.52004
Maryland Facility AED Report Form for Cardiac Arrests

All facilities registering with MIEMSS for Public AED use will be required to fill out a Facility AED Report Form when:
1. A suspected Cardiac Arrest occurs at your facility whether or not the AED was applied; OR
2. Any time the Facility AED pads are put on a person (regardless of the person’s medical condition).
   This includes the use of a Facility AED for any reason by either an authorized employee or an unauthorized person.

WHEN DOES THE REPORT NOT NEED TO BE FILLED OUT?

The report does not need to be filled out for non-cardiac related false alarms when the AED is retrieved but the pads are not applied. (Example: A customer feels ill and the AED is brought to the patient’s side. The caregiver at the scene does not put the AED pads on the patient because the patient is not suspected of having a cardiac arrest.)

WHO SHOULD FILL OUT THE REPORT?

The report form should be filled out immediately after an incident occurs at your facility by the main Facility Caregiver at the scene and the Facility AED Operator (if a different person). The main Facility Caregiver at the scene is defined as the facility employee who begins the resuscitation process prior to the Facility AED operator arriving. In some circumstances, the Facility Caregiver and the Facility AED Operator may be the same person. If the person initiating resuscitation is not a facility employee, then the Facility AED Operator should be the person who fills out the form. The facility is not responsible for tracking down bystanders who are active in the resuscitation process. However, the report form should accurately reflect that a bystander and not a facility employee initiated the CPR process. The Facility AED Coordinator should review the report and help clarify any questions that the caregiver may have concerning the report.

WHAT IS THE TIME FRAME FOR FILLING OUT THE REPORT & SENDING IT BACK TO MIEMSS?

The report should be filled out immediately following the incident so that the information is still fresh in the mind of the main Facility Caregiver and the Facility AED Operator. If the caregiver has questions about the form, he/she will have 48 hours to consult with the Facility’s AED Coordinator. The AED Coordinator is responsible for seeing that the report is returned to MIEMSS within 48 hours following the incident.

WHO WILL SEE THIS REPORT?

*This is a confidential report.* The AED Coordinator should keep the original copy on file at the facility and a copy should be sent to MIEMSS for quality control purposes. *It will be viewed only by the main Facility Caregiver at the incident, the Facility AED operator (if different from the main Facility Caregiver), the Facility AED Coordinator, and MIEMSS.* MIEMSS will use the report for quality assurance and research purposes only.

WHAT IS THE RESPONSIBILITY OF THE FACILITY’S AED COORDINATOR REGARDING THE REPORT FORM?

1. The Facility AED Coordinator should answer any questions the main caregiver/AED operator has when filling out the form. Any further questions should be directed to MIEMSS Office of Special Programs (410) 706-4740.
2. The Facility AED Coordinator is responsible for seeing the form is fully completed. The AED Coordinator must return to MIEMSS within 48 hours of the incident:
   - copy of the Facility AED Report Form;
   - copy of the AED Summary Report (internal report generated from the facility AED);
   - copy of the FDA Incident Form (if applicable).

3. The Facility AED Coordinator is responsible for keeping on file at the facility: the original AED Report Form, a copy of the AED Summary Report and a copy of the FDA Incident Form (if applicable). Because these are confidential reports, the facility file should be in a secure room and locked.

WHERE DO I SEND THE MIEMSS REPORTS?

The forms can be returned to MIEMSS by either Fax or Express Mail.

MIEMSS Fax: (410) 706-4366 OR Express Mail to MIEMSS: 653 West Pratt Street
Baltimore, MD 21201
Attention: Epidemiology / M-CAPD Study
AED Monthly Safety Inspection Record
AED Serial #

<table>
<thead>
<tr>
<th>Date (dd/mm/yy)</th>
<th>Inspector Initials</th>
<th>AED Unit Intact</th>
<th>Battery Charged Electrodes intact and current (not expired)</th>
<th>Gloves, cables, Report forms with AED unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Please complete a separate record for each AED.*
Maryland’s Emergency Medical Services (EMS) System is coordinated by the Maryland Institute for Emergency Medical Services Systems (MIEMSS). The EMS system is comprised of educated career and volunteer fire and rescue personnel, as well as several levels of certified/licensed EMS providers. Basic life support care is provided by First Responders and Emergency Medical Technician-Basics, while Cardiac Rescue Technicians and Emergency Medical Technician-Paramedics provide advanced life support care. EMS is accessed by dialing 9-1-1, the universal link to multiple emergency resources across the state. Emergency Medical Dispatchers answer the 9-1-1 calls, medically prioritize them, and dispatch the appropriate fire, law enforcement and emergency medical units based on the medical needs identified. Upon arrival at the scene, the EMS provider initiates care based on the Maryland Medical Protocols for EMS Providers and then determines and transports the patient to the most appropriate hospital, trauma center, or specialty center based on the type and severity of the injury or illness and the incident location.

Maryland’s EMS System is divided into five EMS regions across the state. Regional boundaries are based on geographic considerations and traditional EMS delivery areas (see attached map). The regions are further divided into jurisdictions (23 counties, Baltimore City, and Annapolis) addressing needs specific to the patients and providers in that area. Each region has a “regional” medical director, and each jurisdiction has a “jurisdictional” medical director responsible for medical oversight in his/her area. The MIEMSS regional administrators act as liaisons between MIEMSS and local EMS agencies, hospitals, and the community.

Through the cooperation of prehospital providers, jurisdictional authorities, hospital administrators and medical staff, MIEMSS, and government agencies, Maryland has one of the premier EMS systems in the world.